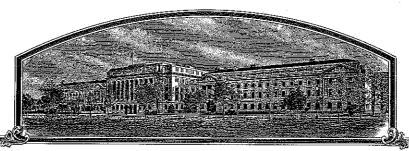
No.



200400322

# THE UNITED STATES OF A VIEW CA

TO AM TO WHOM THESE PRESENTS SHAM COME:

# Monsanto Technology KKÇ

There has been presented to the

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE YEART OF EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

**SOYBEAN** 

'0132963'

In Jestimonn Pherent, I have hereunto set my hand and caused the seal of the Plant Pariety Protection Office to be affixed at the City of Washington, D.C. this seventeenth day of April, in the year two thousand and six.

Allet

DM Jac Commissioner

Plant Variety Protection Office

Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and date	on all reproductions		Form Approved - OMB No. 0581-005		
U.S. DEPARTMENT OF AGRICULTURAL MARK SCIENCE AND TECHNOLOGY - PLANT APPLICATION FOR PLANT VARIETY	ETING SERVICE VARIETY PROTECTION OFFICE	1	lance with the Privacy Act of 1974 (5 U.S.C. 552a) and f a plant variety protection certificate is to be issued tial until certificate is issued (7 U.S.C. 2426).		
(Instructions and information collection	burden statement on reverse)				
1. NAME OF OWNER Monsanto Technology LLC		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME DCP4103A0X	3. VARIETY NAME 0132963		
4. ADDRESS (Street and No., or R.F.D. No., City, State, a	and ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY		
3302 S.E. Convenience Blvd. P.O. Box 3010		(515) 963-4200	PVPO NUMBER		
Ankeny, IA 50021		6. FAX (include area code)	000400322		
7 interty, 171 50021		(515) 965-3001	FILING DATE		
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE F ORGANIZATION (corporation, partnership, association,		9. DATE OF INCORPORATION	9/24/2004		
Limited Liability Company					
Donald Steffen 3302 S.E. Convenience Blvd. P.O. Box 3010 Ankeny, IA 50021	/E(S) TO SERVE IN THIS APPLICATION. (Firs	1. st person listed will receive all papers)	F FILING AND EXAMINATION FEES:  \$ \$4652.00  R  CERTIFICATION FEE:		
			E \$ I V E DATE		
11. TELEPHONE (Include area code)	12. FAX (Include area code)	13. E-MAIL	14. CROP KIND (Common Name)		
(515) 965-3022	(515) 965-3001	destef@monsanto.com	Soybean		
15. GENUS AND SPECIES NAME OF CROP		16. FAMILY NAME (Botanical)	17. IS THE VARIETY A FIRST GENERATION HYBRID?		
Glycine max (L.) Merr.		Fabaceae (Leguminosae)	YES NO		
18. CHECK APPROPRIATE BOX FOR EACH ATTACHME reverse)  a.			EED OF THIS VARIETY BE SOLD AS A CLASS OF 8(a) of the Plant Variety Protection Act)  O and 21 below)  NO (If "no," go to item 22)		
b. Exhibit B. Statement of Distinctness	•	20. DOES THE OWNER SPECIFY THAT S			
c. Exhibit C. Objective Description of Variety		VARIETY BE LIMITED AS TO NUMBER			
d. X Exhibit D. Additional Description of the Variet	v (Ootional)	IF YES, WHICH CLASSES?  FO	UNDATION REGISTERED CERTIFIE		
e. X Exhibit E. Statement of the Basis of the Own	er's Ownership	10-2-10-10-10-10-10-10-10-10-10-10-10-10-10-			
f. Voucher Sample (2,500 viable untreated seet verification that tissue culture will be deposite repository)	ds or, for tuber propagated varieties,	21. DOES THE OWNER SPECIFY THAT S VARIETY BE LIMITED AS TO NUMBER IF YES, SPECIFY THE NUMBER 1, 2,	OF GENERATIONS?		
g. Kiling and Examination Fee (\$3,652), made p States" (Mail to the Plant Variety Protection C	ayable to "Treasurer of the United	FOUNDATION REGISTER (If additional explanation is necessary, p	RED CERTIFIED clease use the space indicated on the reverse.)		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED M FROM THIS VARIETY BEEN SOLD, DISPOSED OF, T OTHER COUNTRIES?	ATERIAL) OR A HYBRID PRODUCED RANSFERRED, OR USED IN THE U.S. OR	23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUME PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?			
YES  IF YES, YOU MUST PROVIDE THE DATE OF FIRST S FOR EACH COUNTRY AND THE CIRCUMSTANCES.	NO ALE, DISPOSITION, TRANSFER, OR USE (Please use space indicated on reverse.)	JA YES			
24. The owners declare that a viable sample of basic seed of for a tuber propagated variety a tissue culture will be de	of the variety will be furnished with application a posited in a public repository and maintained f	and will be replenished upon request in accordance or the duration of the certificate.	with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this sexuand is entitled to protection under the provisions of Sect	ally reproduced or tuber propagated plant varie		uniform; and stable as required in Section 42,		
Owner(s) is(are) informed that false representation here	in can jeopardize protection and result in penal	ities.	<u> </u>		
SIGNATURE OF OWNER		SIGNATURE OF OWNER			
NAME (Please print or type)		NAME (Please print or type)			
Donald Steffen	DATE		T		
CAPACITY OR TITLE  Oilseeds IP/Reg. Affairs Manag  ST-470 (02-10-03) designed by the Plant Variety Protection Office with W		CAPACITY OR TITLE  Obsolete. (See	DATE  Preverse for instructions and information collection burden starmen		

200400322

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO)ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E;(3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to eproduce the variety, or for tuber reproduced varieties verification that a viable in the sense to will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$652 (\$43) filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applicat will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protecti Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be itialed and dated. DO NOT use masking materi to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$2 for issua of the certificate. Certificates willbe issued to owner, not licensee or agent.

> Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/sciencepvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and statehow these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the variety of the variety's distinctness. new variety is most similar to one variety or a goup of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form asompletely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to revealmore accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An ExhibE form is available from the PVPO
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed) the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, thedecision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant VarietyProtection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

ZEP ZZ AT :53

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned refeence number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

U.S. Patent No. 5,776,760. Issue Date: July 7, 1998. Assignee: Monsant@Company. Patent Application No. 484,274.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for ifing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check thappropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Besville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/isg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability sexual orientation, marital or family state political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.
ST-470 (02-10-03) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of S470, which are obsolete

# MONSANTO TECHNOLGY LLC PVP APPLICATION - 0132963

### EXHIBIT A

#### ORIGIN AND BREEDING HISTORY

1997 - Final cross was made in 1997 at Stonington, Illinois.

Parentage: CP3678/AG4301

Source of glyphosate tolerance is 40-3-2.

- 1998 F1 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1999 F2 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1999 F3 bulk populations were grown at Stonington, Illinois and single plants pulled.
- 2000 F3 derived F4 plants were grown at Stonington, Illinois in PRYTs and variety 0132963 was selected based on agronomic characteristics, including, but not limited to, general plant health, lodging, early emergence, and general disease resistance, including resistance to PRR, SCN, BSR, SDS, stem canker, etc.
- 2001 F3:5 breeder seed was grown at Galena, Maryland for progeny row increase and in yield tests at 4 locations in Illinois.

Variety 0132963 was observed to be uniform and stable for the characteristics described within this application based on our observations since 2001 and, henceforth, to present. No variants were observed during this time.

Variety 0132963 has continued to be grown in yield tests at 6 locations in 2002 and 25 locations in 2003 for comparison against other varieties to determine how it would be used in our marketing program.

# MONSANTO TECHNOLGY LLC PVP APPLICATION - 0132963

# **EXHIBIT B**

## **NOVELTY STATEMENT**

To our knowledge, the soybean varieties that most closely resemble 0132963 are SD93038, and SE71112:

1. PRR Gene Reaction ( <del>Telerance</del> to Phytophthora Root Rot) (BT:54/2005 per applicant's permission)	0132963 SD93038 SE71112	- Rps1c - Susceptible - Susceptible
2. Pubescence color	0132963 SD93038	- Gray - Gray
	SE71112	- Tawny
3. STS (Als) Gene	0132963	- Present
( <del>Telerance</del> to sulfonylurea herbicides) BT: 5/4/2005 per applicants authorization)	SD93038	- Absent
to 1394/2003 per applicantes auminization)	SE71112	- Absent

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

# OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)	Monsanto Technology	LLC		FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or	R.F.D. No., City, State, and ZIP Code)			PVPO NUMBER 4 0 0 3 22
	3302 S.E. Convenience P.O. Box 3010	Blvd.		VARIETY NAME 0132963
	Ankeny, IA 50021			TEMPORARY OR EXPERIMENTAL DESIGNATION DCP4103A0X
PLEASE READ ALL INS	STRUCTIONS CAREFULLY: Place the	appropriate number that describ	es the varietal character of th	is variety in the boxes below.
Place a zero in the first bo	ox (e.g. 099 or 09 ) when n	number is either 99 or less or 9 or	less respectively. Data for qu	uantitative
plant characters should be	e based on a minimum of 100 plants Co	omparative data should be determ	ined from varieties entered in	the same trial. Royal
Horticultural Society or a	ny recognized color standard may be use	ed to determine plant colors; desi	gnate system used:	
	s for your variety; lack of response may	delay progress of your application	n.	
A. MORPHOLOG	GY			1.01
Seed Shape:				
3 = Eb	L/T, and $T/W$ ratios $< 1.2$ )	) (L/W ratio 4 = Elonga	cal-Flattened > 1.2; L/T ratio < te-Flattened > 1.2;T/W ratio > 1	
Seed Coat Color:				
$\boxed{1} \qquad 1 = Ye$	2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)
Seed Coat Luster:				
1 1 = Du	dl 2 = Shiny			
Seed Size:				
0 0 . 0	grams/100 seeds			
lilum Color:				
5 1 = Bu 6 = Bla		3 = Brown ease Specify)	4 = Gray	5 = Imperfect Black
Cotyledon Color:				

### A. MORPHOLOGY (Continued)

Seed Protein Peroxidase Activity:

0 1 = Low 2 = High

200400322

Hypocotyl Color:

3 1 = Green 'Evans' or 'Davis' 2 = Green with Bronze Bands below Cotyledon 'Woodworth' or 'Tracy'

3 = Light Purple below Cotyledons 'Beeson' or 'Pickett 71' 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

3 1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

2 1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

2 1 = Tan

2 = Brown

3 = Black

**Pubescence Color:** 

1 1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

3 | 1 = Determinate

2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

**Maturity Group:** 

0 7

1 = 000 6 = III 11 = VIII 2 = 007 = IV12 = IX

3 = 08 = V13 = X

4 = I 9 = VI 14 = XI 5 = II 10 = VII 15 = XII

**Maturity Subgroup:** 

1

Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant 3 = Tolerant

**Bacterial** 

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

0

Brown Spot (Septoria glycines Hemmi)

В.	DISEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible	2 = Resistant 3 = Tolerant		
	Frogeye Leaf Spot (Cercospora sojin	na Hara)		200400322		
	0 race 1 0	race 2	0 race 3	0 race 4		
	0 race 5	race 6	Other	(Please Specify)		
	Target Spot (Corynespora cassiicola	(Berk. & Curt.) We	i)			
	Downey Mildew (Peronospora trifoli	iorum var. manchuri	ca (Naum.) Syd. ex G	äum)		
	Powdery Mildew (Microsphaera diff	usa Cke. & Pk.)				
	Brown Stem Rot (Phialophora grega	ata (Allington & Chan	nberlain) W. Gams.)			
2	Stem Canker (Diaporthe phaseolorus	m (Cke. & Ell.) Sacc.	var. caulivora Athov	& Caldwell)		
0	Pod and Stem Blight (Diaporthe pha	seolorum (Cke. & Ell	.) Sacc. var. <i>sojae</i> (L	ehman) Wehm.)		
0	Purple Seed Stain (Cercospora kikuc	hii (T. Matsu. & Ton	noyasu) Gardener)			
0	Rhizoctonia Root Rot (Rhizoctonia se	olani Kühn)				
Phyto	ophthora Root Rot (Phytophthora megas	perma Drechs. f. sp.	glycinea (Kuan & Er	win))		
2	race 1 2 race 8	2 race 15	1 race 22			
2	race 2 2 race 9	1 race 16	2 race 23			
2	race 3 2 race 10	2 race 17	2 race 24			
1	race 4 2 race 11	1 race 18	1 race 25			
1	race 5 1 race 12	1 race 19	2 race 26			
2	race 6 2 race 13	1 race 20	2 Other (Please Sp	vecify):		
2	race 7 1 race 14	2 race 21	Races 28, 29,	30		
0	Bud Blight (Tobacco Ringspot Virus)	,				
0	Yellow Mosaic (Bean Yellow Mosaic	Virus)				
0	Cowpea Mosaic (Cowpea Chlorotic V	'irus)				
	0 Pod Mottle (Bean Pod Mottle Virus)					

ь. ь	ISEASE REACTIO	15 (C	onunuea)	0 = Not 1	ested	I = Susceptibl	e = 2 = Res	istant 3 =	Tolerant
0	Seed Mottle (Soyl	ean I	Mosaic Virus	s)			2004	4003	22
Nema	tode								
Soybe	an Cyst Nematode (i	Heter	odera glycine	s Ichinohe)					
0	race 1	0	race 4	0	race 9				
0	race 2	0	race 5	3	race 14	(former r. 4)			
2	race 3	0	race 6		Other (	Please Specify) _	<del></del>		
0	Lance Nematode (	Hople	olaimus colui	mbus Sher)					
0	Southern Root Kn	ot Ne	matode ( <i>Mei</i>	loidogyne inc	eognita (Ko	ofoid & White)	Chitwood)		
0	Northern Root Kn	ot Ne	matode ( <i>Mei</i>	loidogyne ha <sub>l</sub>	pla Chitwo	ood)			
0	Peanut Root Knot	Nem	atode ( <i>Meloi</i>	dogyne arend	aria (Neal)	Chitwood)			
0	Reniform Nemator	le (Ra	otylenchus re	niformus Lii	iwood & (	Olivera)			
0	Javanese Nematod	e ( <i>Me</i>	loidogyne jav	<i>vanica</i> (Treu	b) Chitwo	od)			
	Other Nematode (1	Please	Specify)		<del>.</del>				
C. PH	IYSIOLOGICAL RI	SPO	NSES	0 = Not Te	ested	1 = Susceptible	2 = Resi	stant 3 =	Tolerant
0	Iron Chlorosis on C	Calca	reous Soil						
0	Phosphorus								
0	Boron								
0	Aluminum								
0	Salt								
0	Drought								
	Other (Please Speci	fy) _							

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant 3 = Tolerant
0 Mexican Bean Beetle (Epilachna	varivestis Mulsant)		
			200400322
0 Potato Leaf Hopper (Empoasca )	fabae (Harris))		
Other (Please Specify)			
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant
2 Metribuzin			
0 Bentazone			
2 Sulfonylurea			
2 Glyphosate			
1 Glufosinate			
0 Pendimethalin			
Other (Please Specify)			
F. TRANSGENIC COMPOSITION  Has the development of the Subject Variet If yes, please complete the following inform 1. Please state the vector's name:  2. Please state the vector components:  3. Please describe the genetic material surface 4. Please describe the insertion protocol:	mation requests*. Use	additional pages if n	ecessary.
* A literature citation(s) explaining the the "Transgenic Composition" portion	four information request of this form.	sts above may be an	acceptable alternative to completion of
U.S. Patent No. 5,776,760. Issue Date: J Monsanto Company. Patent Application	fuly 7, 1998. Inventor: No. 484,274.	Barry, Gerard, and	d Kishore, Ganesh. Assignee:
ABSTRACT: Genes encoding a glyphosate transformed bacteria and plants which degherbicide.	e oxidoreductase enzym grade glyphosate herbic	e are disclosed.  Th ide as well as crop p	e genes are useful in producing clants which are tolerant to glyphosate

### G. BIOCHEMICAL MARKERS

200400322

Please describe any biochemical information here which you believe will be helpful in further describing the Subject Variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

MONSANTO TECHNOLGY LLC PVP APPLICATION - 0132963

### **EXHIBIT D**

### ADDITIONAL DESCRIPTION OF INVENTION

0132963 is an early maturity group IV variety with resistance to Roundup <sup>tm</sup> herbicide. It has very high yield potential. It has superior yields to lines of similar maturity and has excellent agronomic characteristics, including lodging resistance. It has a major gene for Phytophthora resistance, Rps1c, conferring resistance to many races of Phytophthora Root Rot. In tests, it has beaten Asgrow AG4301 by 109 % overall, winning at 18 of 25 locations. It is adapted to the early maturity group IV growing areas of Kansas, Missouri, Illinois, Indiana, and Maryland. It has slightly below average appearance.

REPRODUCE LOCALLY. Include form number and edition date on all reproduc	ctions.	FORM APPROVED - OMB No. 0581-005			
U.S. DEPARTMENT OF AGRICULTURE					
AGRICULTURAL MARKETING SERVICE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held				
EXHIBIT E	confidential until the certificate is issu	ied (7 U.S.C. 2426).			
STATEMENT OF THE BASIS OF OWNERSHIP	<u> </u>				
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME			
Monsanto Technology LLC	DCP4103A0X	0132963			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)			
3302 S.E. Convenience Blvd. P.O. Box 3010	(515) 965-3022	(515) 965-3001			
Ankeny, IA 50021	7. PVPO NUMBER 2004				
8. Does the applicant own all rights to the variety? Mark an "X" in t		X L			
9. Is the applicant (individual or company) a U.S. National or a U.S.	. based company? If no, give name of	country. X YES NO			
10. Is the applicant the original owner?	NO If no, please answer one or	f the following:			
b. If the original rights to variety were owned by a company(ies	NO If no, give name of country  ), is (are) the original owner(s) a U.S. ba  NO If no, give name of country	sed company? y			
11. Additional explanation on ownership (Trace ownership from origi	inal breeder to current owner. Use the re	everse for extra space if needed):			
PLEASE NOTE:		<u>,                                      </u>			
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:				
<ol> <li>If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of</li> </ol>	person must be a U.S. national, national of the U.S. for the same genus and speci	of a UPOV member country, or es.			
<ol><li>If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.</li></ol>	yed the original breeder(s), the company country which affords similar protection t	r must be U.S. based, owned by to nationals of the U.S. for the same			
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.			
The original breeder/owner may be the individual or company who did Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection			
According to the Paperwork Reduction Act of 1995, an agency may no conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055. including the time for reviewing the instructions, searching existing data sources, gathering a	The time required to complete this information collec-	fon is estimated to average 0 thour per resonnee			
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and a					

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or familial status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326W, Whitten Building, 14<sup>th</sup> and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.